

## CLAIMS:

*Adm*

1. A device for the control of phases (P1 to P4) of a charge pump (20), which device includes a phase generator (9) and a charge pump (20) that is provided with a plurality of stages (1, 2) it being arranged to apply signals (14 to 17) from the charge pump (20) to the phase generator (9) for the adaptive adaptation of the phases (P1 to P4) of the stages (1, 2) of the charge pump (20).
2. A device as claimed in claim 1, characterized in that a stage (1) includes a switching unit (3) and a charge storage device (4) and that a driver (10) is provided for the charging of the charge storage device (4).
3. A device as claimed in claim 1, characterized in that it is arranged to supply the phase generator (9) with a respective signal (15) from a switching unit (3) and a signal (14) from the charge storage device (4).
4. A device as claimed in claim 1, characterized in that at least two respective signals (14, 15; 16, 17) are arranged so as to be applied to the phase generator (9) from at least two stages (1, 2).
5. A driver circuit for driving a display device which includes a charge pump (20) and a phase generator (9), it being arranged to apply signals (14 to 17) from the charge pump (20) to the phase generator (9) for the adaptive control of the phases (P1 to P4).
6. A display device which includes a driver circuit for driving the display device with a charge pump (20) for generating higher voltages and a phase generator (9), it being arranged to supply the phase generator (9) with signals (14 to 17) from the charge pump (20).